and stored audio <u>data</u> and voice samples, <u>wherein an audio output from the device is produced</u> [to provide altered audio and voice presentations].

- 2. (amended) The interactive digital music device of claim 1, <u>further</u> comprising means for providing visual effects complementing <u>the audio output from the device</u> [said altered audio and voice presentations].
- 3. (amended) The interactive digital music device of claim 2, wherein [said] the means for providing visual effects [,] comprises visual means for providing written song lyrics.
- 4. (amended) The interactive digital music device of claim 2, wherein [said] the means for providing visual effects, comprises visual means for providing complimentary light patterns for the audio output from the device [said altered audio and voice presentations].
- 5. (amended) The interactive digital music device of claim 1, wherein [said] the programmable memory comprises flash memory [, and wherein said received radio signals, unique musical compositions and altered audio and voice presentations are digitized].
 - 6. deleted
- 7. (amended) An Automatic Composer in a digital multi-media device for composing a musical piece according to automatic composition instructions and for mixing sound samples into [it] the automatically composed musical piece, comprising:
- a processor having an input and an output, [said] <u>the processor operating to [implement]</u>
 <u>execute</u> the automatic composition instructions, <u>wherein automatically composed music is generated;</u>
- a <u>first</u> memory [for] storing a music database for use in accordance with the automatic composition instructions, <u>wherein the music database is accessed during execution of the automatic composition instructions;</u>
- a second memory [for] storing the sound samples, [said] wherein the first and second memories [being] are connected to the processor input, wherein a music synthesizer is connected to the processor output for control by [said] the processor and providing a synthesizer output; [,] and
- a summation and digital to analog conversion circuit, wherein the summation and digital to analog conversion circuit receives the [for receiving] processor and synthesizer outputs and [for providing] provides a summed analog output.

- 8. (amended) The Automatic Composer [as set forth in] of claim 7, wherein [said] the summation and digital to analog conversion circuit [,] comprises a digital to analog converter that receives the [for receiving said] synthesizer and processor outputs and [for providing] provides analog signals, and a second [a] summation circuit [for receiving said] that receives the analog signals.
- 9. (amended) The Automatic Composer [as set forth in] of claim 7, wherein [said] the summation and digital to analog circuit comprises a digital adder [for summing] that sums the processor and synthesizer outputs and [for providing] provides a summed digital output, and a digital to analog converter [for receiving said] that receives the summed digital output.
- 10. (amended) The Automatic Composer [as set forth in] of claim 9, wherein [said] the [processor comprises an internal] digital adder is integral to the processor.
- 11. (amended) The Automatic Composer [as set forth in] of claim 9, wherein [said] the [synthesizer comprises an internal] digital adder is integral to the synthesizer.
- 12. (amended) The Automatic Composer [as set forth in] of claim 7, wherein [said] the synthesizer comprises [an additional] a second processor [for directly accessing said] that accesses the second memory [for] storing sound samples, and wherein [said] the synthesizer [comprises means for handling] processes the sound samples as a special case of basic instrumental sounds.
- 13. (amended) The Automatic Composer [as set forth in] of claim 7, further comprising a microphone for recording external sound samples, and means for starting and stopping recording.
- 14. (amended) The Automatic Composer [as set forth in] of claim 13, further comprising means for automatically eliminating the silent periods that precede and follow a [useful] portion of a recording, and means for implementing a speech compression algorithm to compress the [useful] portion of the recording.
- 15. (amended) The Automatic Composer [as set forth in] of claim 7, wherein [said] the processor comprises:

means for integrating [said] <u>the</u> sound samples into musical compositions; [,]
means for functioning to select [said] <u>the</u> sound samples according to a pseudo-random sequence; [,]

means for directing [said] <u>at least certain of the sound</u> samples to be played at a predetermined time between the beginning and the end of a musical bar as governed by [certain] <u>one or more musical rules;</u> [,]

means for directing [any] <u>a</u> portion of the <u>at least certain of the</u> sound samples to be played from its entirety to any part thereof; [,] and

means for optionally selecting repetition of the at least certain sound samples.

- 16. (amended) The Automatic Composer [as set forth in] of claim 7, wherein [said] the processor comprises means for imparting special effects to the musical piece, whereby the musical piece is optionally modified with any [ones] one or more of echo, vibrato, distortion, frequency modulation, and filtering effects.
- 17. (amended) The Automatic Composer [as set forth in] of claim 7, wherein [said] the processor comprises a clock operating at 25 MHz maximum, and wherein [said] the first memory and [said] the second memory comprise a memory having a capacity of 2 MB maximum.